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August 17, 2007

Western Region School IPM Implementation and Assessment Work Group 2006-2007

Progress Report to the Western Regional IPM Center, Aug 1, 2007.

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Added Collaborators:

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Overview

The Western Region School IPM Implementation and Assessment Work Group was established to encourage collaboration between university, state agencies, federal agencies, industry, and advocacy groups working to encourage and enhance successful implementation of IPM in schools in the western region. We strive to accomplish this through development of an inventory of programs and resources, increased networking and communication, improved access to and sharing of resources, and identification of IPM implementation challenges and barriers.

This region encompasses a wide variety of geographic and climatic habitats. Thus, the pest spectrum is diverse and varies even within states. Many of the Western states support large urban centers with rapidly increasing populations. The level of extension help available within the region is highly variable, with some states having absolutely no Extension entomologists available to support urban initiatives. This work group is comprised of an enthusiastic group of scientists, educators, and regulatory participants, including Extension scientists, state and federal representatives, advocacy representatives and industry experts. While specific pests may vary, the process of implementing IPM in a school environment is oriented towards people management, and as such, is much the same anywhere. As such, our translation of programs within the Western region or from other parts of the United States is appropriate.

Project Objectives:

- 1) Form a work group.
- 2) Invite stakeholder input to identify needs.
- 3) Discuss the potential for developing standards for school IPM practices.
- 4) Assess existing school IPM implementation tools.

This report summarizes the activities and progress of the work group to date.

Objectives and Procedures

Objective 1. Form a work group. The level of interest and engagement of diverse state partners in this work group has exceeded all of our expectations! From our initial membership of 15 contacts from 7 states in the initial grant application, we have expanded to 30 participants from 9 states throughout the Western region (AZ, CA, CO, MT, NV, OR, UT, WA, WY).

In addition to regional interest in this group, our partners include representatives from the U.S. EPA (national IPM in Schools Program Manager, Sherry Glick) and the IPM Institute of North America. After our formation, we learned that a Southern Region IPM in Schools Working Group (SRIPMISWG) was funded during the same grant cycle. Two members of that working group have participated in our regular conference calls and we

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have exchanged information and ideas. For example, the SRIPMISWG adopted the State IPM Assessment questionnaire that we developed for our use.

The work group detailed in this document meets regularly using “Breeze” Conferencing and telephonic connections. Topics addressed via these conferences include the state-by-state school IPM assessments (described below), funding opportunities, and available implementation and assessment tools. We also conduct extensive communications by emails, coordinated through a central mailing list maintained by Jennifer Snyder at UA. Additionally, a face-to-face meeting and school IPM site visit is scheduled for September 24-25th, 2007 in Portland, OR (agenda attached). The focus of the face-to-face meeting will be to discuss state assessment information, hear from the Southern Region School IPM Working Group member Lawrence Graham about the group’s activities, outline a grant proposal, and settle upon IPM standards as a group. This meeting will provide us with an opportunity to assess our progress on work group objectives and initiate strategic planning for the next funding cycle. We have set aside time at the meeting to discuss strategies for securing additional funds to support school IPM efforts in the West (possibly through the Regional IPM Competitive Grants program).

Additionally, an Entomological society of America (ESA) School IPM Network forum has been scheduled for the Annual ESA meeting (December, 2007). This is an unfunded activity, but will provide an opportunity for entomologists attending the meeting to interact. It is an open invitation meeting and we hope members from the Western School IPM Work Group will interact with members of the National School IPM Pest Management Strategic Plan (PMSP) Team, and the Southern Regional School IPM Working Group. Synergy is probably the best word to describe the dynamic interactions of multiple stakeholders, agencies and extension partners that formed around the hub of our work group.

We have also applied to form a Multistate Education/Extension and Research Coordinating Committee WERA TEMP 2182; requested Duration: from October 1, 2007 to September 30, 2012. Project Title: Implementation and Assessment of IPM in Urban Environments.

A major activity of several work group members during this funding cycle has been participation in a National School IPM Pest Management Strategic Plan (PMSP) funded cooperatively by the four Regional IPM Centers. We have conducted monthly conference calls, participated in subcommittees to draft and revise various sections of the document, and have combined the state school IPM assessment questionnaire developed by this work group with EPA’s School IPM Report card to develop a comprehensive assessment instrument, which has been included in the PMSP. The PMSP is in near-final draft form and is expected to be published online this fall. All PMSP-related activities were funded through a separate line from the work group, but the West has had a strong voice in this process through the coordinating efforts of our work group.

Additional leveraged funds come from the Arizona Pest Management Center for supporting significant contributions made to the work group by IPM Program Manager Al Fournier, and University of Arizona extension grant funds for co-supporting the coordinating duties of Jennifer Snyder. The work group's face-to-face meeting in Portland, OR, is also being partially sponsored by pest management industry members Eden Advanced Technologies, Inc. (on behalf of Jack Marlowe) and EcoLab, Inc. (on behalf of Paul Cardosi). Many of the work group members' employers are covering their travel costs for this meeting, as well, so the small investment of the Western IPM Center funding for this work group has resulted in significant leveraged activities described here and throughout this report.

Objective 2. Invite stakeholder input to identify needs. In addition to our active participation in the National School IPM PMSP (described above), we have conducted a detailed state-by-state inventory of School IPM programs, resources, and related legislation. We developed a brief questionnaire (see appendix 1) to facilitate the process of collecting state information. This was distributed to work group participants to gather data on the level of IPM practices in the following states: Arizona, California, Colorado, Montana, Nevada, Oregon, Utah, Washington, and Wyoming. A summary of this inventory is presented in table 1, and in appendices 2 and 3.

Table 1

Inventory of School and Child Care IPM Laws and Regulations Western Region School IPM Implementation and Assessment Work Group								
	Indoor posting	Outdoor posting	Pre-notification	Reentry requirements beyond label	Minimal training for applicators	¹ IPM law or rule	Product restrictions or green list	other
Arizona	sc	sc	sc	-	sc	v	-	² sc
California	sc	sc	sc	-	-	v	-	-
Colorado	ns	ns	ns	ns	ns	ns	ns	ns
Montana	sc	-	sc	-	sc	v	-	-
Nevada	-	-	-	-	-	-	-	-
Oregon	-	-	-	-	-	-	-	-
Utah	-	-	-	-	s	-	-	-
Washington	sc	sc	sc	-	-	-	-	-
Wyoming	s	s	s	-	-	-	-	-

s = schools; c = child care centers; v = voluntary; ns = not sure

¹ Information for this column from Beyond Pesticides (October 2006)

² Emergency pesticide applications restricted to Caution label or exempt products

The overwhelming conclusion based on these data is that there is a huge diversity of resources, active agencies, and variety of current practices. However, resources and implementation efforts are very focused in specific states. The Western state with the fastest growing school district (Clark County, Nevada), has no supportive state

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legislation. The Western State of Utah has no available extension entomologists to support a rapidly expanding IPM implementation coalition. The state of California has the greatest experience implementing IPM in specific school districts, but this has not been transferable to other states or districts within California. Even the way schools are divided into district for management purposes are dramatically different. The need for regional support of implementation efforts is paramount.

This inventory provides a snapshot of currently available IPM programs and resources, and will serve as baseline data for measuring change over time. Most of these resources are “generic” and can serve multiple states. A goal of this work group in the next funding cycle is to make links to these existing resources readily available through a central website. Another important activity will be to assess, from an end-user perspective, how valuable these various resources are and how they might be improved to increase adoption by school IPM implementers (see objective 4).

Filling out the inventory form required several work group members to contact various state agencies and school IPM information sources in their state. This increased: communication among in-state entities on school IPM, strengthened partnerships, revealed potential funding sources, and renewed interest in school IPM awareness. In particular, Utah’s school IPM program garnered the attention of a representative from Utah Department of Agriculture who has since joined the work group and is working actively toward the creation of an in-state school IPM Coalition in partnership with the flagship district, Salt Lake City School District. Colorado State University Extension has no school IPM program or funding; however, a partnership was formed with a representative from the Colorado Department of Agriculture which may yield near-term funds to support this nascent program as a direct result of the inventory activity.

Objective 3. Discuss the potential for developing standards for school IPM practices.

The potential of developing standards for school IPM practices was a topic of discussion during some of our conference calls. Carrie Foss (Washington State University) presented IPM Curriculum developed separately by the Western Region Structural Pest IPM Work Group, though in the end we found this was not readily adaptable for our needs. An existing standard for IPM in Schools, that of the IPM STAR program of the IPM Institute of North America, already exists as an assessment/certification program and those in the group familiar with the process suggested that future efforts focus on developing a curriculum in support of the STAR standards. Four of the nine states represented in the work group currently have had schools assessed using the IPM STAR criteria. The standards required by STAR will be discussed further on the second day of the upcoming workshop, after we have all participated in a school assessment using the certification process.

Objective 4. Assess existing school IPM implementation tools.

Our objective of assessing the implementation of five existing school IPM Implementation tools has not been completed at this time. This was a major topic of

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discussion during several conference calls and an area of effort for the work group. However, we found it challenging to implement on a state-by-state basis because work group participants in many states lack direct contact with school IPM implementers and were unable to facilitate the assessment. Therefore, the tools will be field tested during a 2 day practicum in Salt Lake City, Utah (September 13-14, 2007). An extension representative from Arizona, Washington, Oregon, Montana, Colorado, and Wyoming will participate in a 2 day implementation program in Utah. Utah has no extension entomologists for urban programs. Funds from the Utah Department of Agriculture and Food will sponsor the event. After the practicum, the tools will be revised by the extension group and the school district participants. The following faculty are participating:

Dawn H. Gouge, Urban Entomologist (University of Arizona)

Carrie Foss, Urban IPM Coordinator (Washington State University)

Tim Stock, IPM Education Specialist (Oregon State University)

William Lanier, Insect Diagnostician and ICPM Assistant (Montana State University)

Alexandre V. Latchininsky, Assistant Professor/Extension Entomologist (University of Wyoming)

Assefa Gebre-Amlak, Regional Pest Management Specialist (Colorado State University)

The Western school IPM resource list (appendices 2 and 3), together with the National School PMSP will provide the most comprehensive set of “tools” to support IPM implementation by schools in our region. The group will use the School IPM eXtension system to review new and distribute developed materials. eXtension is an internet-based educational partnership of the 74 1862 and 1890 institutions of the Land-Grant university system that helps people improve their lives by providing access to objective research-based information and learning opportunities. The Wiki site is for the collaborative development of resources about the eXtension initiative: news, governance, and projects. Several members of the Western School IPM Working Group are actively involved in the construction of the School IPM site.

Summary

Through the Western Region School IPM Implementation and Assessment Work Group:

- We have created and continue to expand a multi-state work group capable of responding to IPM information needs for our region, including implementation support for school managers, and pest management professionals.
- We have developed improved relationships with multiple government agencies both state and Federal, that will facilitate improvement and measurement of our IPM programs, and enhance our ability to respond to critical pest management issues and information requests.
- We have built collaborative partnerships that further IPM goals in Western states and facilitate sharing of resources.

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- We have solicited stakeholder input, in order to identify major IPM priorities for efficient implementation in schools.
- We have compiled a thorough inventory of school IPM programs and resources throughout our region, which will serve as baseline data for measuring progress in school IPM implementation.
- We have opened and important dialog among key stakeholders in the west on the barriers and challenges to supporting full adoption of IPM practices in schools throughout our region.
- We have leveraged significant resources and activities (National School IPM PMSP, state extension urban IPM programs, the Arizona Pest Management Center, U.S. EPA, the IPM Institute of North America, and the Utah Department of Agriculture and Food, to name a few) to accomplish these objectives.

In the one-year term of this grant we have built a foundation of collaboration and have documented a thorough inventory of existing resources and programs. We will seek continued funding of this work group in the coming grant cycle to build on this foundation and to further address the goal of the IPM Roadmap with respect to school IPM.

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Western Region School IPM
Implementation and Assessment Work Group
2006 – 2007 Meeting

*The Doubletree Hotel & Executive Meeting Center
Portland ~ Lloyd Center*

Monday, September 24th, 2007, Noon. We hope to be able to provide a Deli Buffet served outside the meeting room (room to be determined by hotel).

1:00 – 1:30 pm Welcome and Introductions, 1 minute brief on who you are, and your current level of school IPM involvement – Everyone.

1:30 – 1:45 pm State assessment information – Dawn & Al (University of Arizona).

1:45 – 2:15 pm Summary of Southern IPM in schools working group and introduction to eXtension – Fudd Graham (Auburn University).

2:15 – 3:00 pm State goals and regional objectives. Discussion of in-state programs, and resources required (bring your best and worst war stories) – Everyone.

3:00 – 3:15 pm – Break

3:15 – 3:45 pm National Pest Management Strategic Plan for IPM in Schools – Tom Green (National IPM Institute of North America).

3:45 – 4:15 pm IPM funding opportunities – Rick Melnicoe (Western IPM Center).

4:15 – 5:30 pm RIPM grant planning? – Everyone.

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Tuesday, September 25th, 2007, 8:30am. Check out and leave for School trip.

9:30 – 11:00 am School Visit – Jack Marlow (Eden Advanced Pest
Technologies)

11:00 – Noon IPM Standards discussion and RIPM grant planning.

Noon Depart



Appendix 1

Western School IPM Implementation and Assessment Working Group Inventory of State Activities and Resources

Dear Workgroup Participant:

One of the objectives of our Western IPM Center grant is to document current school IPM activities and implementation throughout the West. While useful in and of itself, this inventory will also serve as benchmark for measuring the outcomes and impact of this working group over time. We'd also like to hear your perspective on the history, current activities and future goals of your own school IPM program.

Part 1: State Activities, Resources and Rules

Please respond to each of the following questions by providing information (to the best of your knowledge) for your state.

Name _____ State represented in your responses

1. Which of the following best represents the **level of outreach / education / support for school IPM implementation** in your state?

- (i.e., a _____ (a) Statewide coordinated effort involving multiple agencies & institutions
Coalition or Committee)
_____ (b) Statewide program implemented by a single agency or institution
_____ (c) Independent outreach / implementation efforts engaged in by one or
more entities locally (e.g., pilot programs)
_____ (d) Schools are making independent efforts towards IPM implementation
_____ (e) None of the above. *Please describe your state's situation:*

2. Please **indicate the number** of school districts in your state that have earned

- _____ (a) The IPM Star Award
(IPM Institute of North America, www.ipminstitute.org/)
_____ (b) The Green Flag Award
(Center for Health, Environment and Justice,
www.greenflagschools.org)
_____ (c) PESP Partnerships
(Environmental Protection Agency, www.epa.gov/oppbppd1/PESP/)
_____ (d) Other awards. *Please list:*

3. Please **list any existing tools / resources for school IPM** in your state (including workshops, fact sheets, outreach programs, websites, publications, etc.). *Please provide URLs for websites and forward example documents, etc. to jsnyder@ag.arizona.edu.*

4. Please **indicate which of the following are required of schools and/or childcare facilities by state law.** (Check all that apply.)

	Schools	Childcare	
	_____	_____	(a) Posting of indoor pesticide applications
	_____	_____	(b) Posting of outdoor pesticide applications
applications	_____	_____	(c) Pre-notification of parents or staff prior to pesticide
	_____	_____	(d) The use of IPM
certification)	_____	_____	(e) Minimal training requirements for applicators (e.g.,
	_____	_____	(f) Re-entry requirements beyond the pesticide label
	_____	_____	(g) Pesticide product restrictions (or “green” pesticide list)
	_____	_____	(h) Other (<i>please specify</i>)

Have pesticide laws for schools changed in your state in the past three years?

- _____ YES
_____ NO
_____ Not sure

5. We would like to learn about your organization’s School and/or Childcare IPM program. Please provide a brief overview of the program’s history, current activities and future goals, including information about funding resources.

Appendix 2

SCHOOL IPM RESOURCE LIST				
Western Region School IPM Implementation and Assessment Work Group				
STATE	TOOL	AGENCY/ ORGANIZATION	SOURCE	DESCRIPTION
Arizona	Semi-annual meeting	Arizona Children's Environmental Health Coalition	University of Arizona Urban IPM staff	Agendas, meeting notes, PowerPoint presentations, etc.
	Annual workshop	Arizona Children's Environmental Health Coalition	University of Arizona Urban IPM staff	Agenda, activities, notes, feedback, etc.
	"Pest Press" Newsletter	University of Arizona (UA)	http://ag.arizona.edu/urbanipm/schoolipm/newsletters/index.html	Bi-monthly newsletter for school staff about the importance of IPM, staff role in an IPM program, management of featured pest, etc. Applicable for schools and general public.
	Ongoing training for pilot school staff	UA	Urban IPM staff	Offered on an as-needed basis and as funding allows.
	Peer-reviewed publication	UA, Indiana University	D. H. Gouge, M. L. Lame, and J. L. Snyder. Use of an Implementation Model and Diffusion Process for Establishing Integrated Pest Management in Arizona Schools. <i>American Entomologist</i> . 52 (3): 190-196	Describes model process used by UA staff for implementation of school IPM in Arizona.
	Urban IPM Website	UA	http://cals.arizona.edu/extension/new_urbanipm/	{Under construction} Contains IPM in school and child care facilities implementation resources for both pest management professionals and school staff, arthropod fact sheets, and a list of current involvements .
	Environmental	Arizona	http://www.azdeq.gov/function/about/risks.html	Contains information on indoor air

	Health Website	Department of Environmental Quality		quality (IAQ), IPM, asthma, and environmental health risks to children.
California				
	School IPM Website	California Department of Pesticide Regulation (DPR)	http://www.schoolipm.info	A comprehensive directory of resources describing and promoting least-hazardous practices at school sites and compliance instructions for the Healthy Schools Act of 2000.
	School IPM HELPR pages	DPR	http://www.schoolipm.info/health_issues/main.cfm?#usehelper	Provides the public with all appropriate information regarding public health and environmental impacts of pesticide active ingredients, and ways to reduce use of pesticides at school facilities.
	Statewide workshops	DPR	DPR staff	Four workshops per year for District IPM Coordinators (totaling approx. 160 participants each year); include site assessments, demonstrations, tours, and class exercises.
	Interactive Pest Management DVDs	University of California IPM and DPR	Contact DPR, http://www.schoolipm.info/main.cfm	DVDs are 23-35 minutes and present information about IPM, management options, and a question & answer session intended to generate group discussion; target audience is District IPM Coordinators. Ants, cockroaches, weeds, IPM
	School IPM Guidebook	DPR	http://www.cdpr.ca.gov/cfdocs/apps/schoolipm/managing_pests/guidebook.cfm	Indoor/outdoor (structural and landscape) pest management for invertebrates, vertebrates, weeds; sample IPM record keeping forms and contracts; classroom curricula.
	Publications Website	DPR		Trade and peer-reviewed publications/articles; school IPM curricula (yellow jackets, burrowing rodents, landscape weeds, turf weeds, and

			http://www.cdpr.ca.gov/docs/pmap/schoolipm.htm	structural pest management); fact sheets; surveys (2001, -02, -04, 06, -07); IPM record keeping calendar; teacher pest prevention poster
	School IPM List server	DPR	http://www.cdpr.ca.gov/cfdocs/apps/schoolipm/main.cfm	Listserv consists of monthly updates
	School IPM Advisory Group	DPR	http://www.schoolipm.info or contact DPR for more information	Consists of 37 members from pest control businesses, advocacy groups, consultants, legislature, school organizations, higher education institutions, etc.
	District Facilities IPM Website	Los Angeles Unified School District	http://www.laschools.org/efm/mo/ipm/	District IPM Policy, IPM procedures manual, inspection reports, posting notice form, pest sighting log
Colorado				
	No established resources as yet – new program developing	Colorado State University		
Montana				
	School IPM Website	Montana State University (MSU)	http://ipm.montana.edu/SchoolIPM/	PowerPoint resources covering guidelines and ideas for school IPM implementation and general IPM principles
	Pest identification and recommendations	MSU Schutter Diagnostics	MSU IPM Staff (http://diagnostics.montana.edu/)	Diagnosis of pest problems; identification of insects, mushrooms, plants, and plant diseases
Nevada				
	IPM Fact sheet	Nevada Department of Agriculture (NVDA)	Available by contacting NVDA	Identification of problems mainly related to sanitation. For teachers, administrators, custodial and maintenance staff.
Oregon				
	School IPM Website	Oregon State University – Pesticide Safety	http://www.ipmnet.org/Tim/PSEP_home.htm	Information on current and future OSU school IPM initiatives

		and Education Program		
	“Insects: Taking a Closer Look at the World of Bugs”	Oregon State University – Rural Science Education Program	http://cropandsoil.oregonstate.edu/gk12/index.htm	Insect curriculum resource for school-age kids (grades 3-8); classification, trapping and tending, behavior, etc.
	School IPM Website	Northwest Coalition for Alternatives to Pesticides	http://www.pesticide.org/schools01.html	Landscape IPM, pesticide exposure case stories, pesticide reduction steps for parents and teachers, regional and state school pesticide use reports.
	“Pest Control Practices in Oregon Public Schools”	Oregon Environmental Council (OEC)	.pdf document available from OEC	Report on a statewide survey conducted 2002-2004 by OEC in collaboration with OR Dept. Education; includes pesticide use, compliance, and IPM practices.
	IPM Program Manual	Portland Public School District	http://www.facilities.pps.k12.or.us/www.pps.k12.or.us/depts/fam/health_safety/IPM_Program/index.html	Prioritized pest control protocol; responsibilities of various school staff; pesticide application records, procedures, notification, and storage.
Utah				
	Asthma Website	Utah Department of Health	http://health.utah.gov/asthma/guidance.html	Air quality guidance for schools including asthma action plan, resource manual, fact sheet, and other tools helpful in understanding asthma in schools.
	District Facilities Website	Salt Lake City School District	http://www.slc.k12.ut.us/depts/facilities/	Pest Press newsletters, introductory information on IPM, indoor air quality, and pest sighting logs.
Washington				
	Urban IPM Website	Urban Pesticide Education Strategy Team	http://www.ecy.wa.gov/programs/swfa/upest/	A website designed to help Washington state citizens adopt IPM for indoor and landscape pests.
	Urban IPM and Pesticide Safety Education	Washington State University	http://pep.wsu.edu/education/ipmworkshops.html	IPM hands-on workshops for landscape professionals including school employees and fact sheets for four pest groups (food

	Website			and fabric, nuisance, stinging and biting, and wood-destroying).
	Structural Pest IPM	Washington State University	http://structuralpest.wsu.edu	Quarterly workshops for structural pest inspectors and pest management professionals; involves hands-on training with emphasis on conducting proper inspections, structural pest identification and IPM. Also pre-certification training for WSDA exam preparation.
	Horticultural IPM Website	Washington State University	http://pep.wsu.edu/hortsense	Plant problem diagnosis and IPM options
	Pesticide Compliance Website	Washington State Department of Agriculture	http://agr.wa.gov/PestFert/Pesticides/ComplianceActivities.htm	Compliance information for the use of Pesticides at Public Schools and Licensed Day Care Centers
	Pesticide Recordkeeping Database	Washington State Department of Agriculture	http://agr.wa.gov/PestFert/Pesticides/Schools.htm	For Public Schools (K-12) and Licensed Daycare Centers
Wyoming	Cooperative Extension Service Entomology website	University of Wyoming	http://ces.uwyo.edu/Entomology.asp	“Insects in the home” offers pictures and basic ID on common household and garden insects in Wyoming; insect ID key (PowerPoint document)

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Appendix 3
 Summary of Contacts

Western Region School IPM Implementation and Assessment Work Group
 August 2007

Name	Affiliation	Title	e-mail	phone
Karl Arne	EPA Region 10, Office of Ecosystems, Tribal and Public Affairs	Ecosystem and Community Health Officer	Arne.karl@epamail.epa.gov	(206) 553-2576
Paul Baker	University of Arizona	Extension Specialist State Pesticide Coordinator	pbaker@ag.arizona.edu	(520) 621-1151
Clark Burgess	Utah Department of Agriculture & Food	Pesticide Program Manager	cburgess@utah.gov	(801) 538-7188
Paul Cardosi	EcoLab, Inc.	Gov't Sales, Western US	paul.cardosi@ecolab.com	(480) 206-4290
Jon Carpenter	Nevada Department of Agriculture		jcarp@agri.state.nv.us	(775) 688-1182
Pat Copps	Orkin, Inc.	Pacific Technical Manager	pcopps@rollins.com	(949) 548-2214
Jaslyn Dobrahner	U.S. Environmental Protection Agency - Region 8	Pesticide Program Officer	Dobrahner.Jaslyn@epamail.epa.gov	(303) 312-6252
William Currie	International Pest Management Institute, Inc.	President	bugebill@earthlink.net	(928) 637-2378
Carrie Foss	Washington State University	Extension Specialist	cfoss@wsu.edu	(253) 445-4577
Al Fournier	University of Arizona Maricopa Agricultural Center	IPM Program Manager	fournier@Ag.arizona.edu	(520) 381-2240
Assefa Gebre-Amlak	Regional Pest Management Specialist	Colorado State University	agebre-amlak@co.weld.co.us	(970) 304-6535 ext. 2074
Sherry Glick	U.S. Environmental Protection Agency	Pesticide Program Officer	Glick.Sherry@epamail.epa.gov	(702) 308-7035

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Dawn H. Gouge	University of Arizona Maricopa Agricultural Center	Urban Entomologist School IPM Program Director	dhgouge@ag.arizona.edu	(520) 381-2223
L.C. Fudd Graham	Auburn University	Coordinator, Alabama Fire Ant Management Program	fgraham@acesag.auburn.edu	(334) 844-2563
Tom Green	IPM Institute of North America, Inc.	President	ipmworks@ipminstitute.org	(608) 232-1528
Mary Grisier	US Environmental Protection Agency	Pesticide Program Officer	Grisier.Mary@epamail.epa.gov	(415) 947-4213
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